HABs in Lake Erie: Introduction

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History—1

- Blue-green blooms common in Western Basin during 60s and 70s
- Dominated by 3 species including Microcystis
- Reduced Phos loading in 70s and 80s from 29,000 tons to under 11,000
- Thought algal bloom problem solved







History—2

- Summer 1995 blooms returned with lower phos and 1 species
- Formed Microcystis Group and initiated a large project in 1996 with support from Lake Erie Protection Fund and Ohio Sea Grant
- Blooms have continued annually since with lower phos and assistance from ZM







Ohio Sea Grant College Program

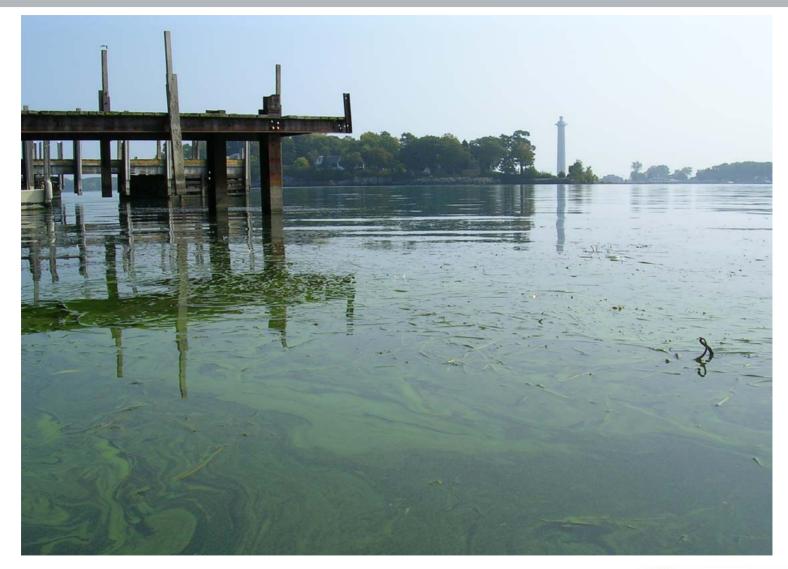








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Needs/Issues

- Explain current situation, e.g. why is phos increasing
- Understand human and ecosystem impacts of HABs in Lake Erie
- Estimate economic impacts of HABs
- Develop strategies to eliminate blooms
- Forecast occurrence of blooms
- Develop strategies to remove toxin







Opportunities & Strength

- Include Great Lakes in HAB Legislation
- Great support from Congresswoman Kaptur and Senator Voinovich
- ORPP—Must show that we are part of it
- Collaboration: Stone Lab, UT Lake Erie Center, Heidelberg Water Quality Lab, GLERL, GLNPO, Ohio Sea Grant, LEPF, GLAERC, WLEB, LEMN, GLRRIN





